

## CLAIMS

1. Use of a pharmaceutical composition comprising at least one  
5 phosphorylcholine conjugate, or an antibody preparation, for example a monoclonal antibody, with specificity to a phosphorylcholine conjugate, in the manufacture of a medicament for immunization and treatment of mammals, including humans, against atherosclerosis or an atherosclerotic related disease.
- 10 2. A method for immunization and treatment of a mammal, including a human, against atherosclerosis or an atherosclerotic related disease, the method comprising the step of administering to the mammal a pharmaceutical composition comprising at least one phosphorylcholine conjugate, or an antibody preparation, for example a monoclonal antibody,  
15 with specificity to a phosphorylcholine conjugate
3. The use of claim 1 or method of claim 2 wherein the medicament is for administration by injection or wherein the composition is administered by injection.
4. The use or method of any one of the preceding claims wherein the  
20 phosphorylcholine is linked to a carrier via a spacer.
5. The use or method according to claim 4, wherein the carrier is a protein.
6. The use or method according to claim 5, wherein the protein is KLH (keyhole limpet hemocyanin) or human serum albumin (HSA).
7. The use or method according to claim 4 wherein the carrier is latex beads.
- 25 8. The use of one or more of the phosphorylcholine conjugates as defined in any one of the preceding claims in the manufacture of a pharmaceutical composition, optionally in combination with an adjuvant, for immunotherapy or therapy for the treatment of ischemic cardiovascular diseases..
- 30 9. A method of prophylactic or therapeutic treatment of a mammal, for example a human being, suffering from atherosclerosis or facing the risk of developing ischemic cardiovascular disease, whereby a therapeutically effective amount of at least one phosphorylcholine conjugate or an

antibody preparation, for example a monoclonal antibody, with specificity to a phosphorylcholine conjugate is administered..

- 5 10. Method of diagnosing the presence or absence of IgM or IgG antibodies related to increased or decreased risk of developing ischemic cardiovascular diseases, using a phosphorylcholine conjugate.
11. Method according to claim 10 wherein phosphorylcholine is linked to a carrier via a spacer.
12. Method according to claim 11 wherein the carrier is a protein
- 10 13. Method according to claim 12 wherein the protein is KLH (keyhole limpet hemocyanin) or human serum albumin (HSA).
14. Method according to claim 11, wherein the carrier is latex beads.
15. Method according to any one of claims 10-14, wherein the assay is an immunoassay.
- 15 16. . Use of a phosphorylcholine conjugate in a method for assessing a patient's risk of developing or progression of ischemic cardiovascular disease in which the patient's levels of IgM or IgG antibodies reactive with the phosphorylcholine conjugate are assessed.